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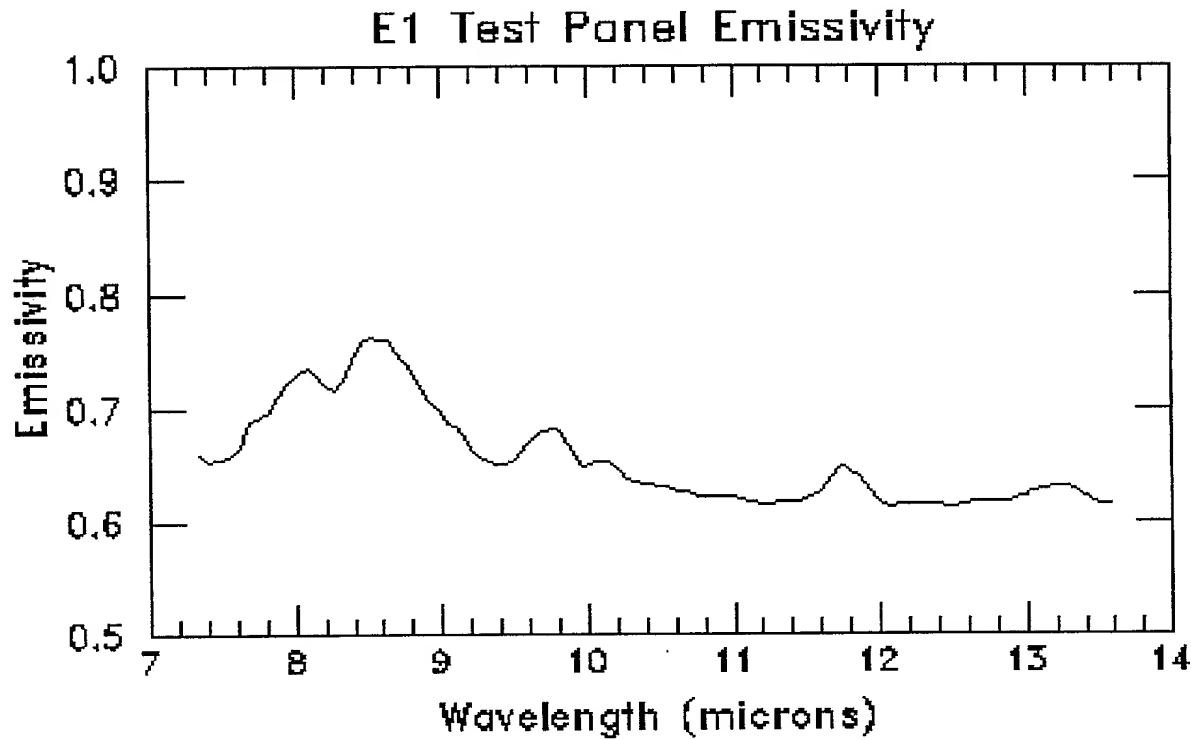


Figure 1. Test Panel Emissivity

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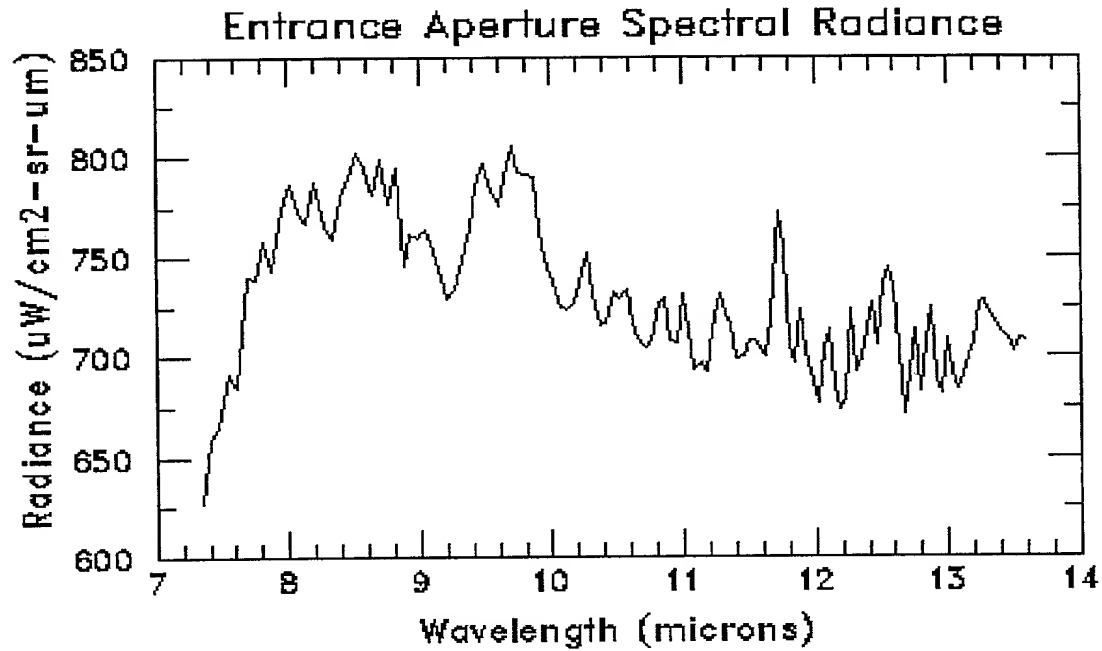


Figure 2. Resulting Entrance Aperture Radiance

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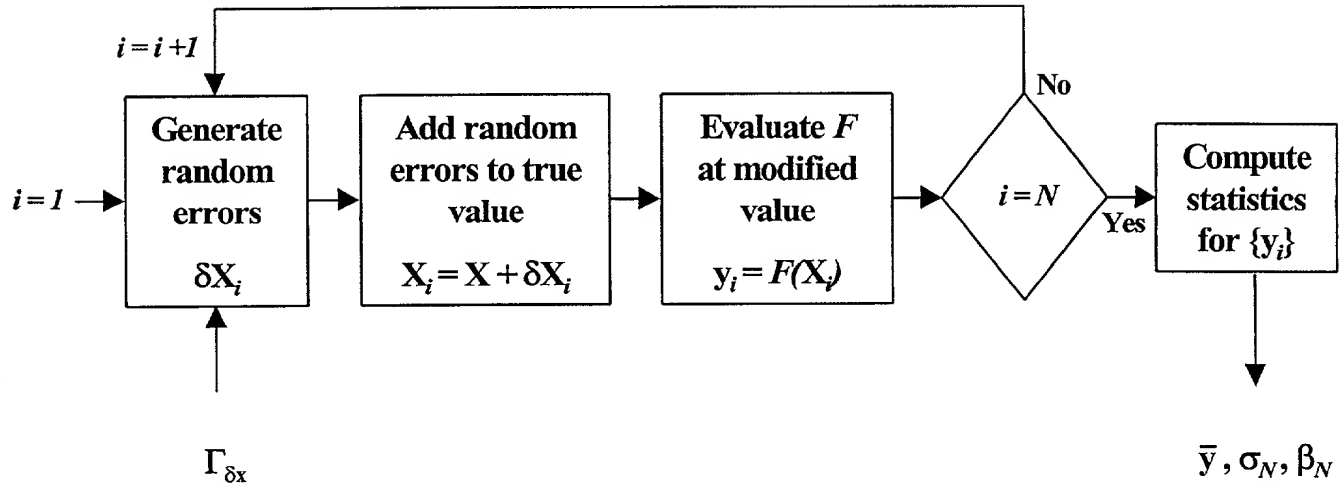


Figure 3. Monte Carlo Simulation

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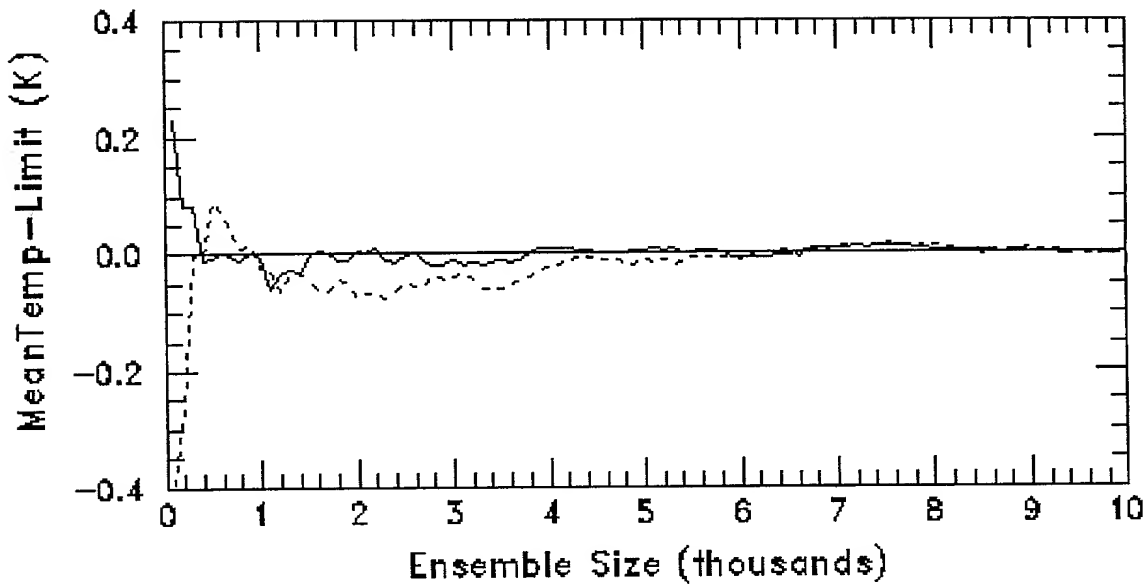


Figure 4. $\bar{y}_N - \bar{y}_{\text{limit}}$ for Ensembles of Different Sizes

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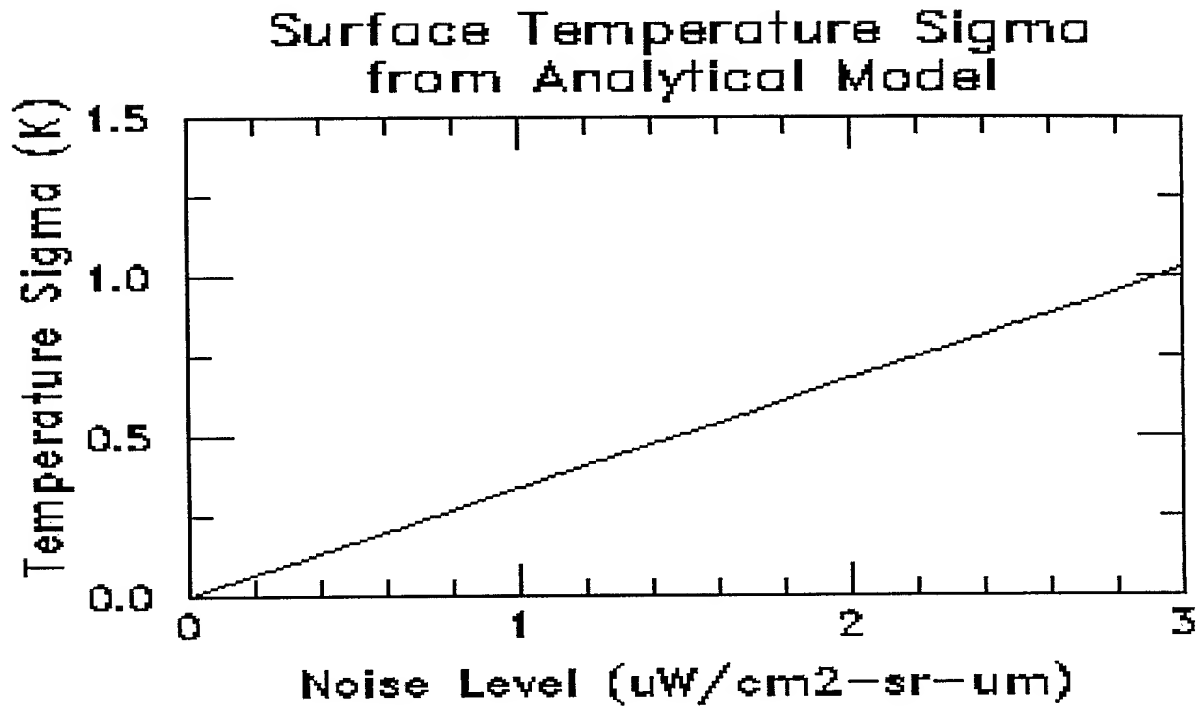


Figure 5. Standard Deviation of the Estimated Surface Temperature

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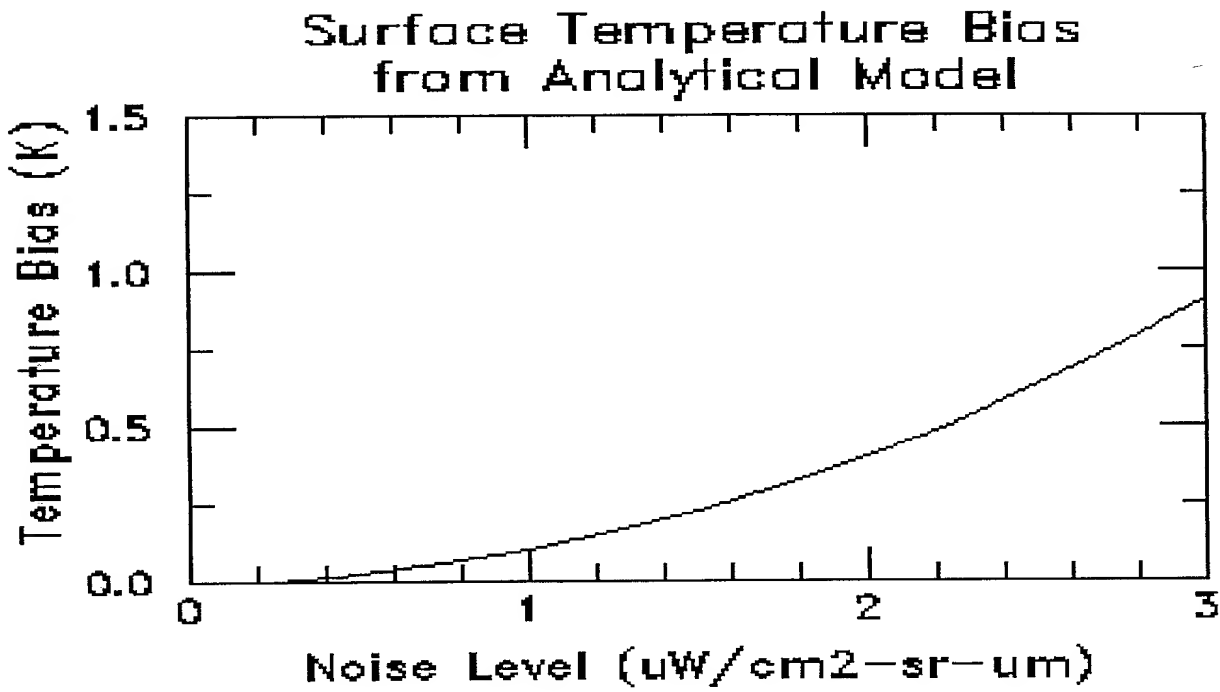


Figure 6. Bias of the Estimated Surface Temperature

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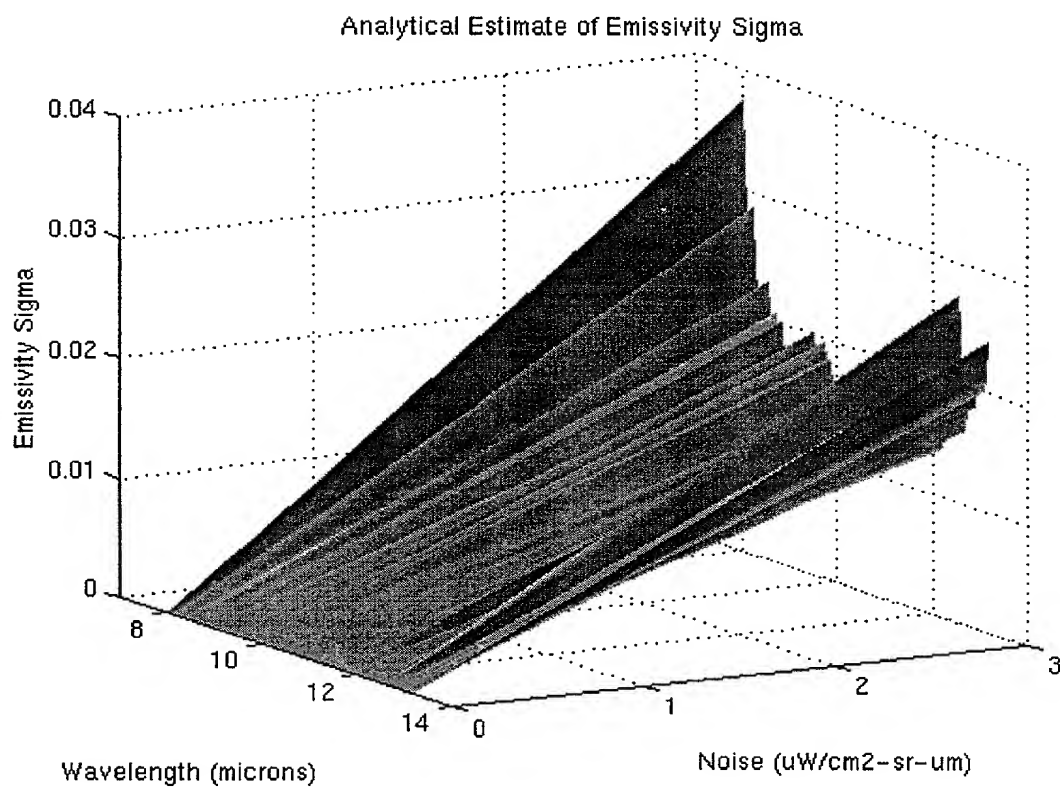


Figure 7. Standard Deviation of the Estimated Surface Emissivity

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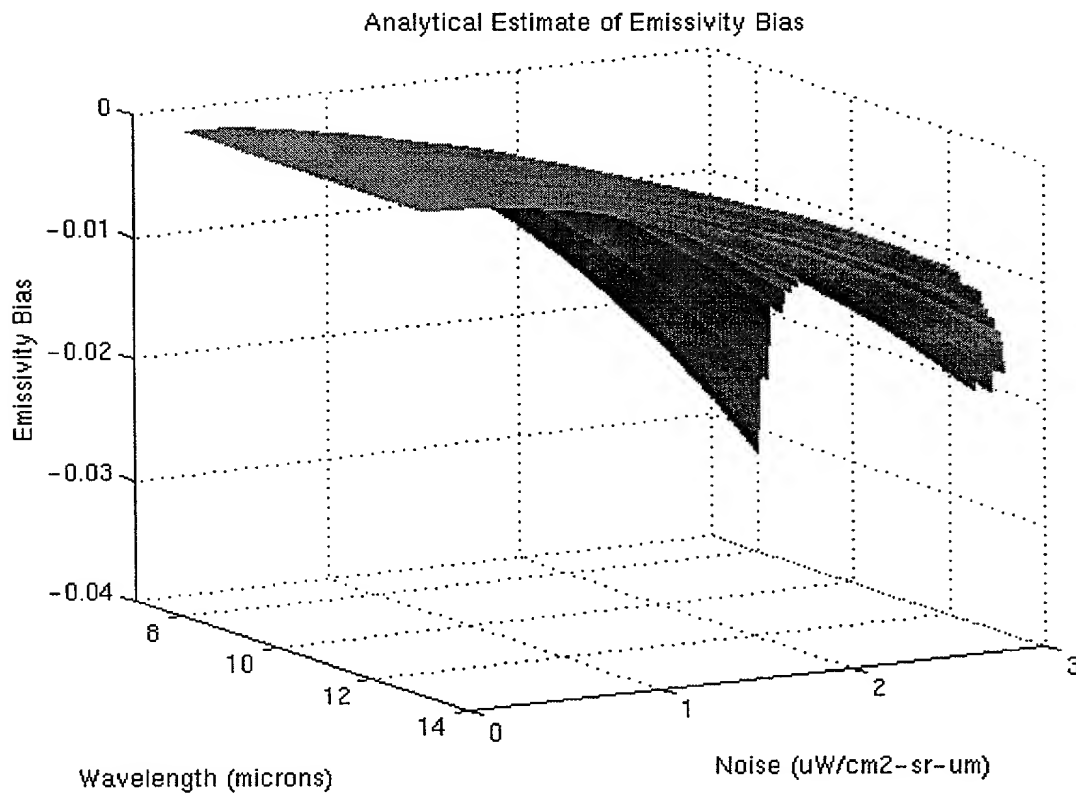


Figure 8. Bias of the Estimated Surface Emissivity

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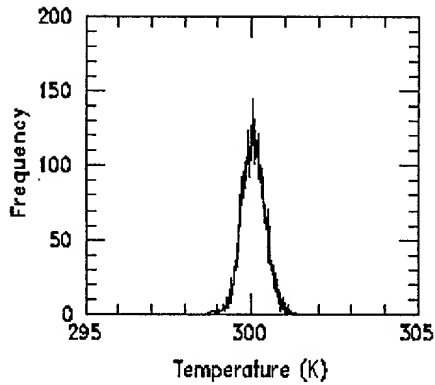


Figure 9a

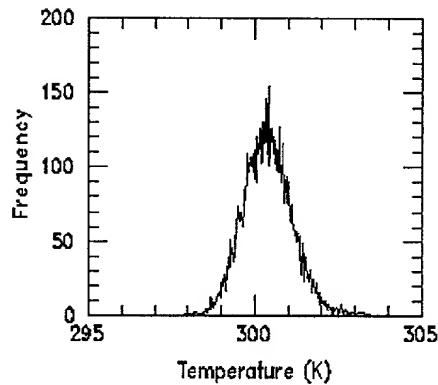


Figure 9b

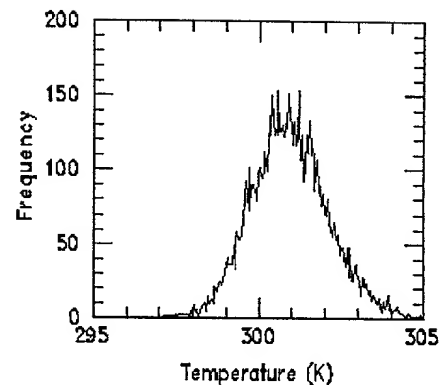


Figure 9c

Distribution of Retrieved Surface Temperature for $\nu = 1, 2$ and
 $3 \mu\text{W}/\text{cm}^2\text{-sr-}\mu\text{m}$

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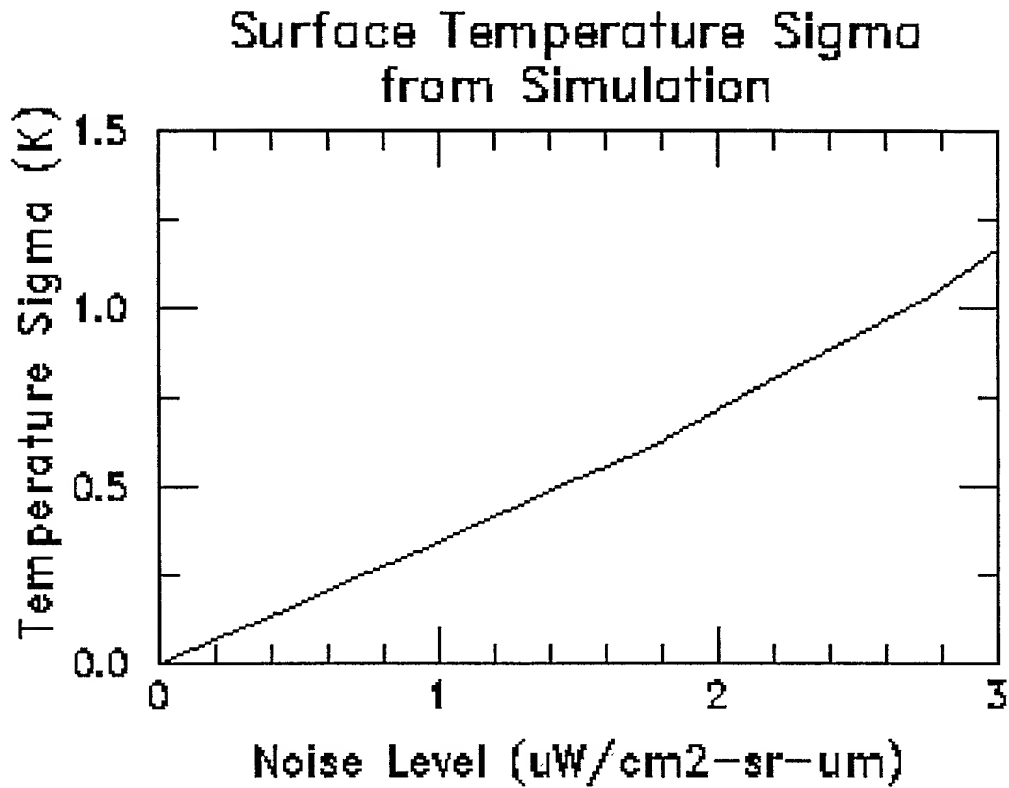


Figure 10. Standard Deviation of Surface Emissivity via Monte Carlo Simulation

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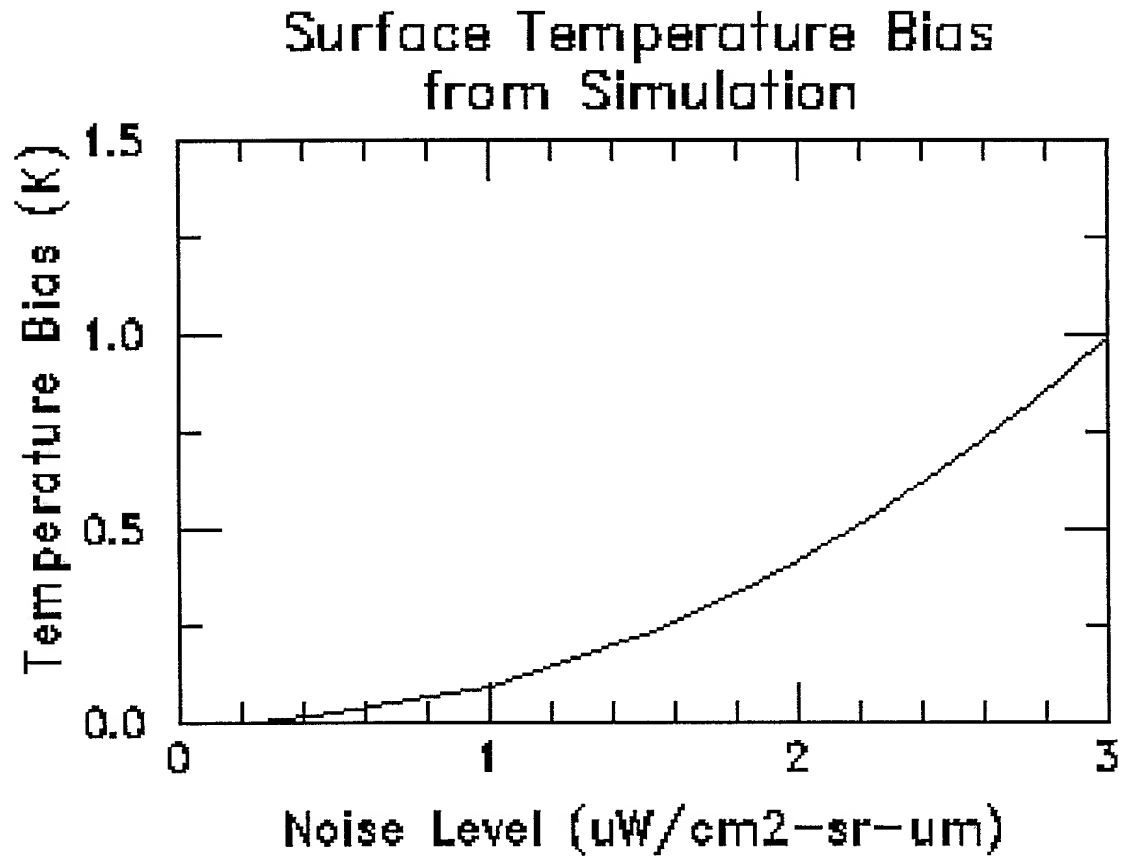


Figure 11. Bias of Surface Temperature via Monte Carlo Simulation

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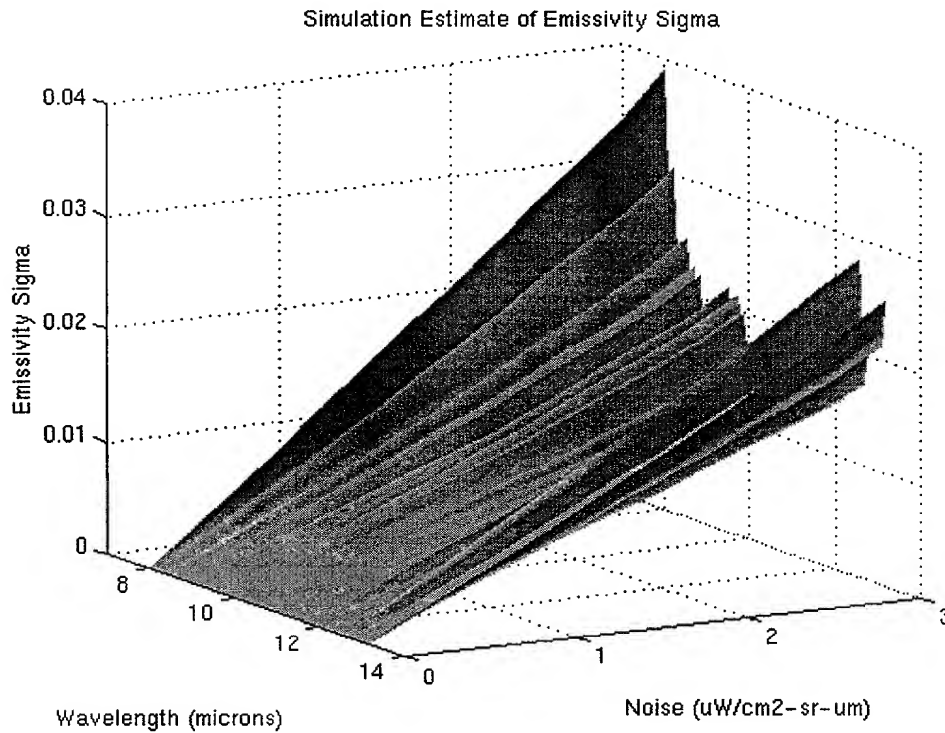


Figure 12. Standard Deviation of Surface Emissivity via Monte Carlo Simulation

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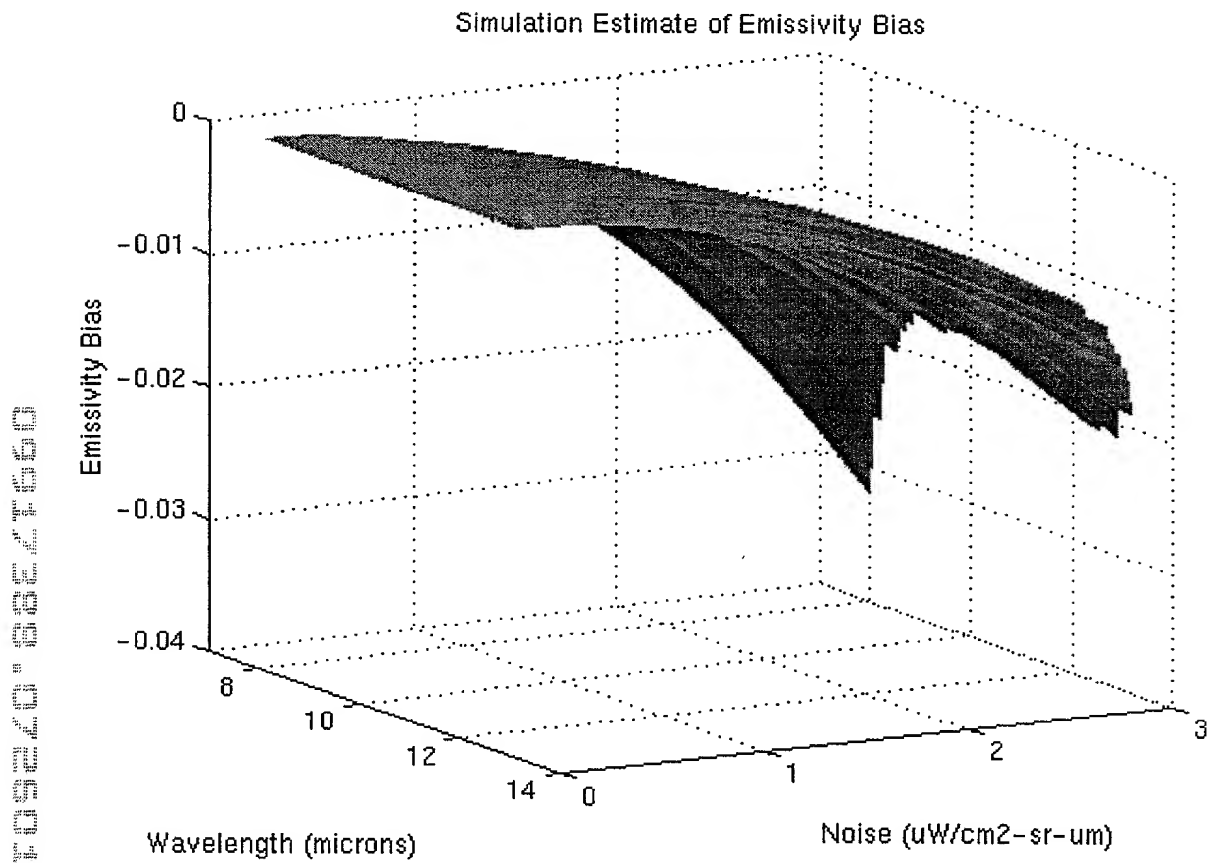


Figure 13. Bias of Surface Emissivity via Monte Carlo Simulation

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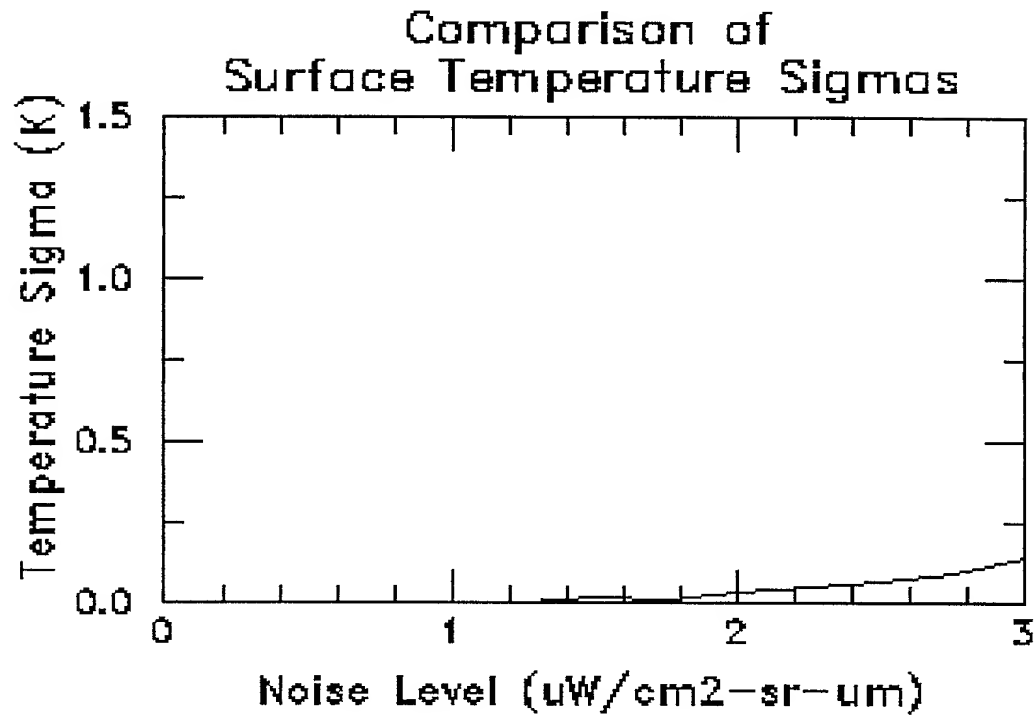


Figure 14. Difference in Analytical/Monte Carlo Estimates of
Standard Deviation

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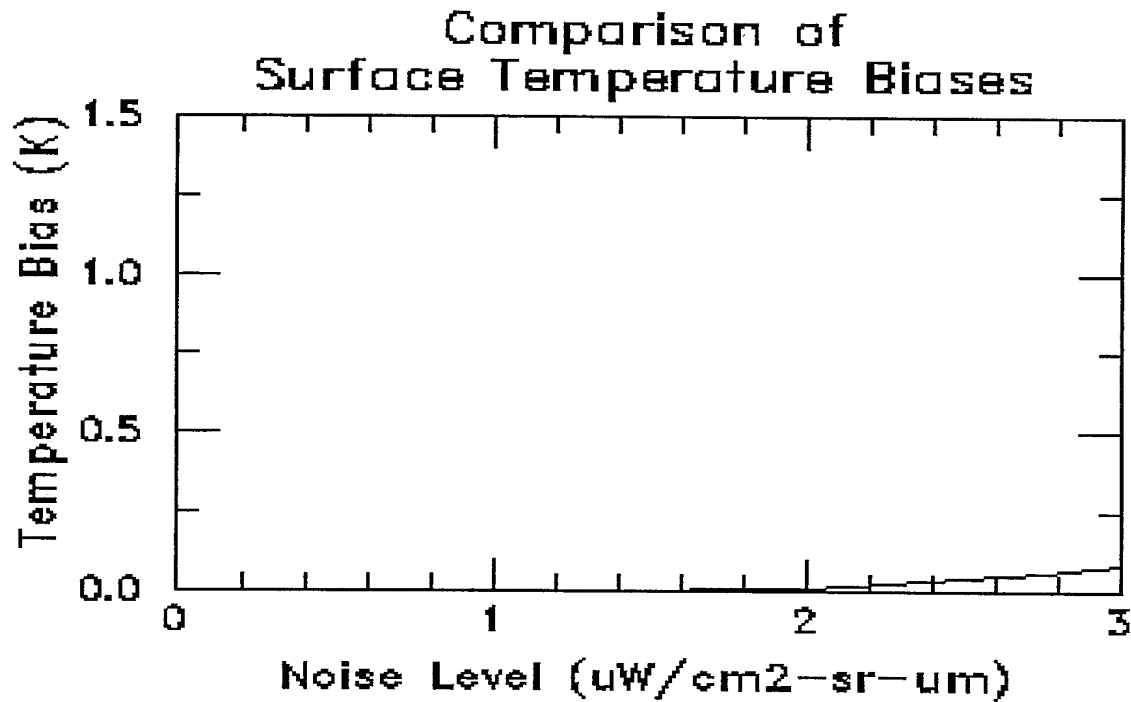


Figure 15. Difference in Analytical/Monte Carlo Estimates of Bias

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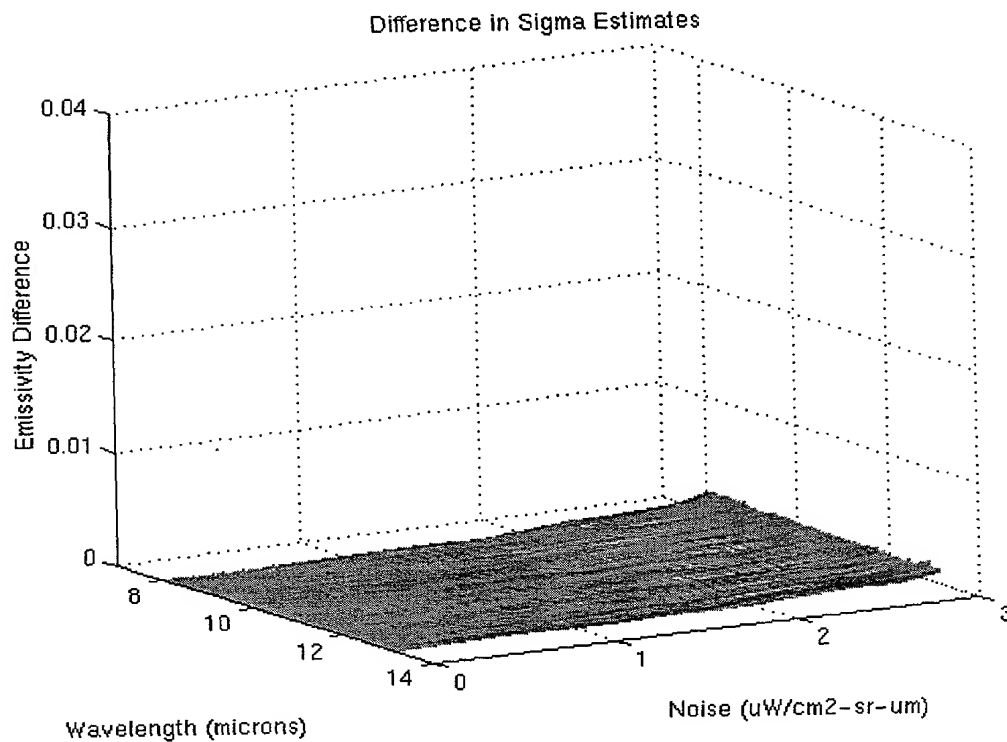


Figure 16. Difference in Analytical/Monte Carlo Estimates of Standard Deviation

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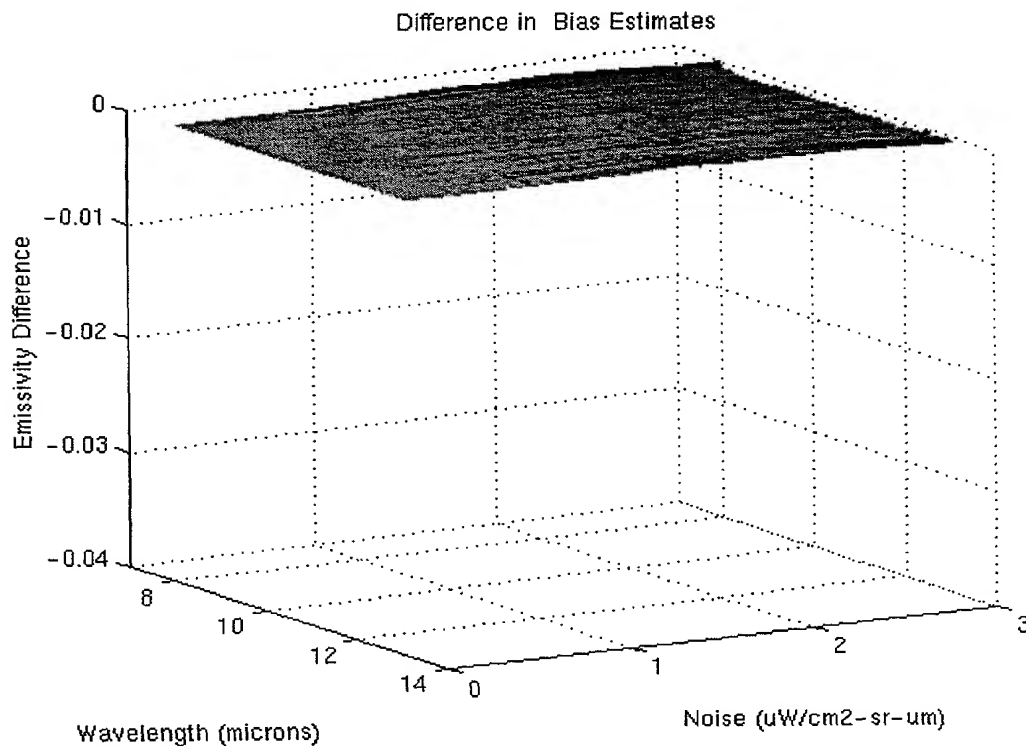


Figure 17. Difference in Analytical/Monte Carlo Estimates of Bias

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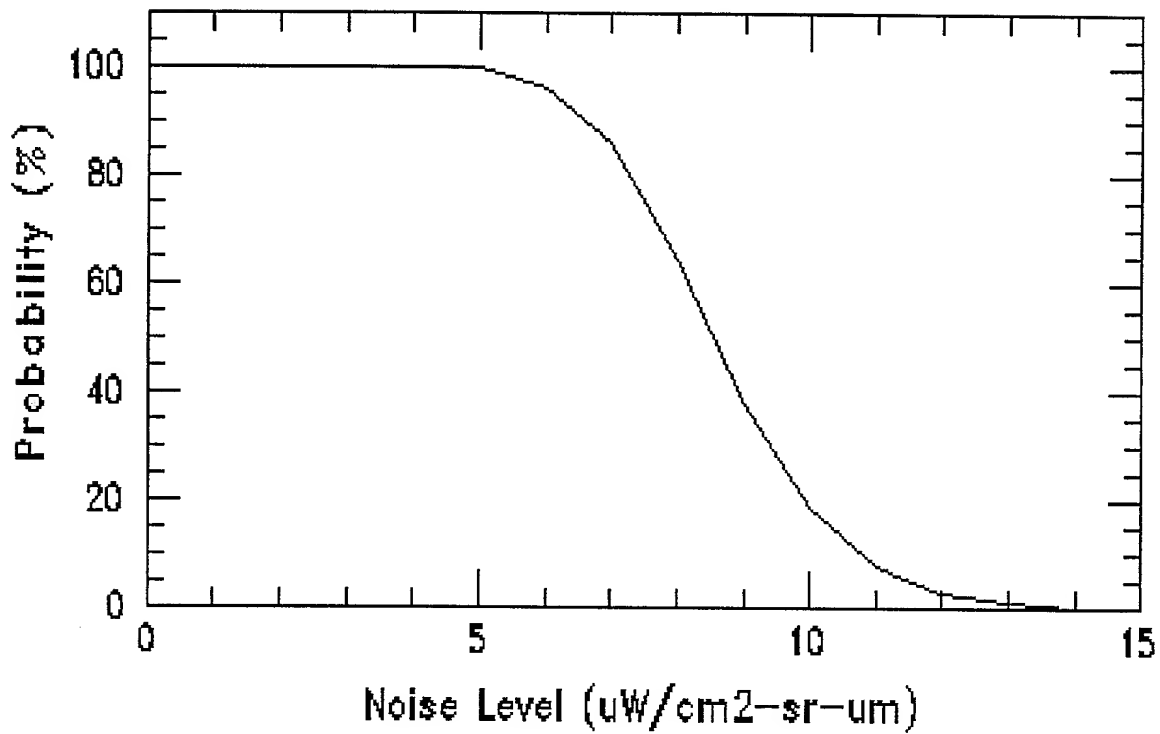


Figure 18. Frequency of Convergence vs. Noise Level